

## A Floating Anode DC Electrolytic Capacitor

### *Abstract*

The present invention is directed to an electrolytic capacitor having a novel floating anode between the cathode and the powered anode of the capacitor, resulting in a single capacitor having a working voltage double that of the formation voltage of the powered anode. The floating anode acts as cathode to the powered anode and as an anode to the cathode, such that the capacitor according to the present invention supports half the working voltage between the cathode and the floating anode and half the working voltage between the floating anode and the powered anode. The arrangement of the cathode, floating anode and powered anode according to the present invention results in a single capacitor with half the capacitance and twice the voltage of a single anode device.

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